

Comparison of MetaP2 Homologues (mouse = SEQ ID NO:13; rat = SEQ ID NO:17;  
human = SEQ ID NO:12; yeast = SEQ ID NO:14)

1	15 16	30 31	45 46	60 61	75 76	90
mouse	MAGVEAASFGHNL	GDLPDDEEGTSST	AEAAKRRKKKKK	KGAVSAVOQLDKES	GALVDEVAKQLESQA	LEEKERODDEDDGG
rat	MAGVEAASFGHNL	RDLPDDEEGTSST	AEAAKRRKKKKK	GTSVDEVAKQLERA	LEEKERODDEDDGG	90
human	MAGVEAASFGHNL	GDLPDDEEGTSST	AEAAKRRKKKKK	KGASVAGEQEDKES	GASVDEVAKQLERSA	LEEKERODDEDDGG
yeast	MAGVEAASFGHNL	GDLPDDEEGTSST	AEAAKRRKKKKK	SPADIKELNLENEG	VTQDQAKADESDPV	38
91	105 106	120 121	135 136	150 151	165 166	180
mouse	DADGATGKKKKKK	KRGPKVQDPPSVPI	COLYPNGVFKQEC	EYPPTQDQRTAAWRT	TSEKKALDOASEEI	WINDFREAAHQRVR
rat	DGDAAGTKKKKKK	KRGFRVQDPPSVPI	COLYPNGVFKQEC	EYPPTQDQRTAAWRT	TSEKKALDOASEEI	WINDFREAAHQRVR
human	DGDAAGTKKKKKK	KRGPKVQDPPSVPI	COLYPNGVFKQEC	EYPPTQDQRTAAWRT	TSEKKALDOASEEI	WINDFREAAHQRVR
yeast	ESKKKKKKKKKKK	N-----VKKI	ELIFPDGKPEGNWM	DYHQDFNLQRTDDE	SKYLKROLERA--EH	WINDVRKGAEIHRVR
181	195 196	210 211	225 226	240 241	255 256	270
mouse	KYNSWIKPKGMTWIE	ICEKLEDGSRKLIKE	NGLNAG-----LA	PTGCSLNACAAHYT	PNAGDUTVLQYDDIC	KIDFGTHISGRILDC
rat	KYNSWIKPKGMTWIE	ICEKLEDGSRKLIKE	NGLNAG-----LA	PTGCSLNACAAHYT	PNAGDUTVLQYDDIC	KIDFGTHISGRILDC
human	KYNSWIKPKGMTWIE	ICEKLEDGSRKLIKE	NGLNAG-----LA	PTGCSLNACAAHYT	PNAGDUTVLQYDDIC	KIDFGTHISGRILDC
yeast	RAIKORIVPGMKLND	IADMIENITRKYTGA	ENLLAMEDPKSQIG	PTGLSLNHCAAHYT	PNAGDKTVLKVEDVM	KYDVGVQVNGNIIDS
271	285 286	300 301	315 316	330 331	345 346	360
mouse	AFTVTFNPKYDILLT	AVKDATNTGKICAGI	DVRLCDVGEAIOEVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVTVKGEAT
rat	AFTVTFNPKYDILLK	AVKDATNTGKICAGI	DVRLCDVGEAIOEVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVTVKGEAT
human	AFTVTFNPKYDILLK	AVKDATNTGKICAGI	DVRLCDVGEAIOEVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVTVKGEAT
yeast	AFTVSGFDQPDNLLA	AVKDATYTGKKEAGI	DVRLTDIGEAIQEVN	ESYEVEINGETYQVK	PCORNLCGHSIAPYRI	HGKKSVPYVKNQDFT
361	375 376	390 391	405 406	420 421	435 436	450
mouse	RMEEGEVALETFS	TGKGVVHDMCESHY	MKNFDVGHVIRLPR	TKHLNVNINENFTGL	AFCRMLDRLGESKY	LVALKNLCDLGIVDP
rat	RMEEGEVALETFS	TGKGVVHDMCESHY	MKNFDVGHVIRLPR	TKHLNVNINENFTGL	AFCRMLDRLGESKY	LVALKNLCDLGIVDP
human	RMEEGEVALETFS	TGKGVVHDMCESHY	MKNFDVGHVIRLPR	TKHLNVNINENFTGL	AFCRMLDRLGESKY	LVALKNLCDLGIVDP
yeast	RMEEGEVALETFS	TGKGVYTAGGVSVSHY	ARSAEDHQVMTLDS	AKNLLKTIDRNFTGL	FCFRYRLDLGQEKY	LFALNNLVRHGLIVDP
451	465 466	480				
mouse	YPLPDLCKGSYTAQF	EHTILLRPTCKEVS	RGDDY--	478		
rat	YPLPDLCKGSYTAQF	EHTILLRPTCKEVS	RGDDY--	480		
human	YPLPDLCKGSYTAQF	EHTILLRPTCKEVS	RGDDY--	478		
yeast	YPLPDLCKGSYTAQF	EHTILLRPTCKEVS	RGDDY--	421		

Figure 1

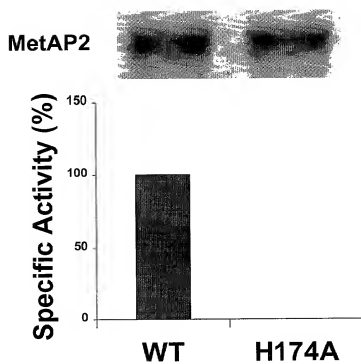
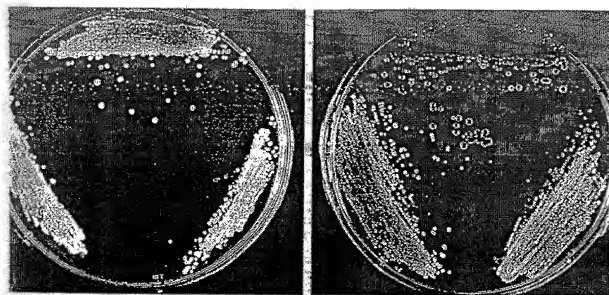


Figure 2



A. Glucose

B. Galactose

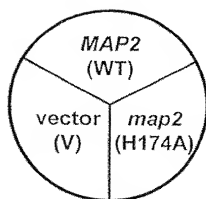


Figure 3

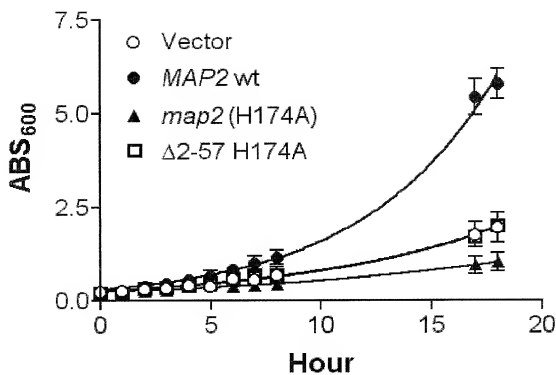
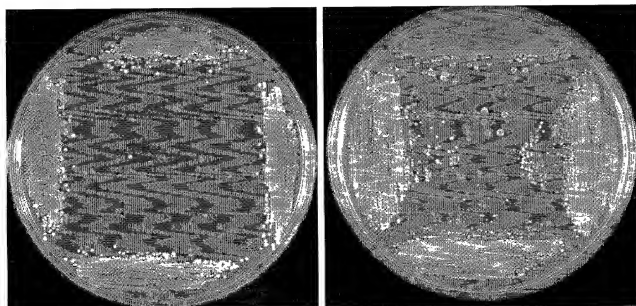
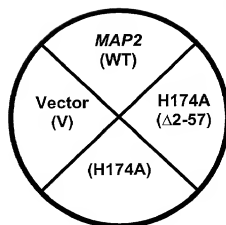


Figure 4



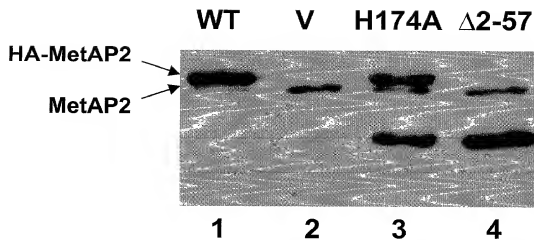
A. Glucose

B. Galactose



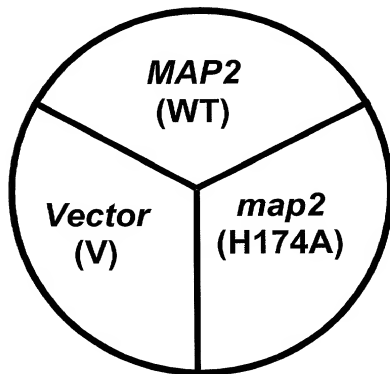
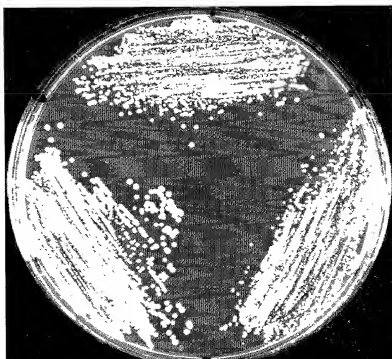
H174A-MetAP2 requires N-terminal residues 2-57 for inhibition of *map1Δ* growth under the *GAL1* promoter.

Figure 5



The steady state levels of each MetAP2 construct are comparable. Immunoblot comparison of HA-MetAP2 wt, HA-MetAP2 H174A, and MetAP2  $\Delta$ 2-57 H174A steady state levels in *map1* $\Delta$ .

Figure 6



Overexpression of H174A-MetAP2 under the GPD promoter does not inhibit the growth of *map2Δ*

Figure 7

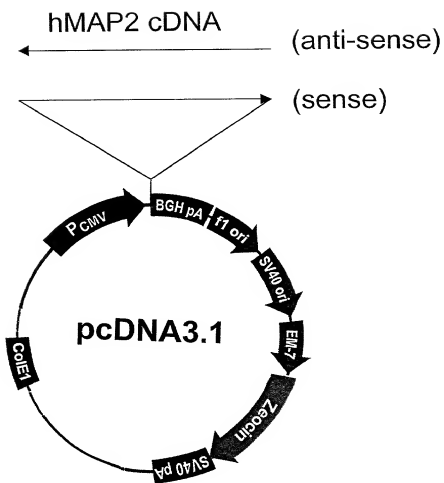


FIGURE 8



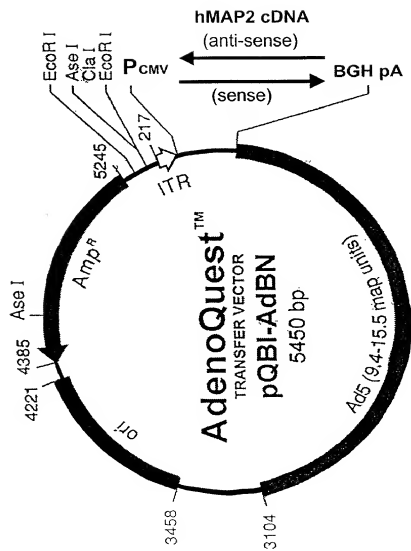


FIGURE 9

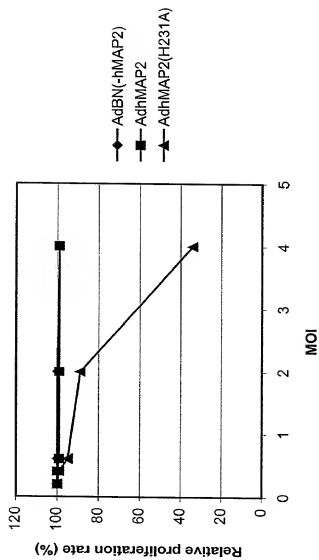


Figure 10

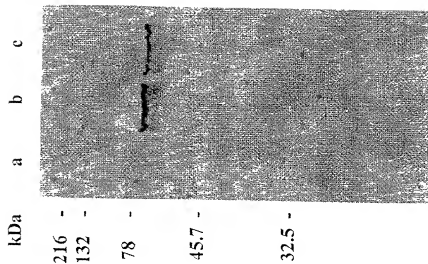
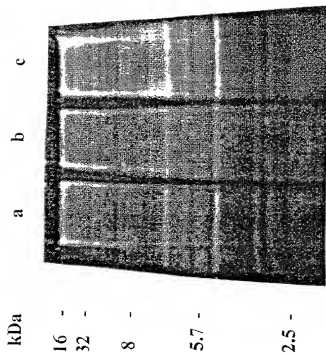
**A****B**

Figure 11